AGRILIGHT®

BRIGHT BY NATURE

User Manual/Installation Manual

Electronic dimmer of the type: ALOSDIEL

Electronic Light Intensity Controller
for Poultry Houses
On
Off
Patent Pending
Controls either 20-39 or 40-80 Orion Lamps
According of the Selector located inside the box
Operates with Orion Magnetic Adapters
100%
50%
230V 50Hz for 11W (Catalogue No. 797)
230V 50Hz Superlux 11W (Catalogue No. 798)
220V 60Hz for 11W (Catalogue No. 801)
220V 60Hz Superlux 11W (Catalogue No. 800)

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CE IP23

Dear Client

Firstly, we wish to thank you for choosing a product by Agrilight B.V.. The ALOSDIEL electronic dimmer is specially designed for switching lighting on and off in poultry houses and livestock enclosures. The dimmer is durable and requires very low maintenance. These instructions provide the necessary information for handling and installing your dimmer safely and correctly. We therefore recommend that you read the instructions carefully and keep them is a safe place. In the event of doubt, please do not hesitate to contact your service technician or Agrilight B.V. for additional information.

Application

The ALOSDIEL electronic dimmer constitutes part of the Orion system and has been designed for the optimum control of Orion armatures (electrical fixtures) in poultry houses.

The ALOSDIEL electronic dimmer may only be used internally, never on the exterior of buildings or enclosures. Only Orion armatures (compact PL-lights) may be connected up to the electronic dimmer!

Installation

It is important to note that the ALOSDIEL electronic dimmer should only be installed by a certified technician. If this is not done, the product guarantee will be invalid. In compliance with the instructions for installation laid down by Agrilight B.V., all generally and locally applicable building and construction regulations should be respected and complied with.

CE certification

CE

With reference to the certificate of conformity for the ALOSDIEL, the CE mark on the type label of the electronic dimmer indicates that the product is in full compliance with EU consumer safety, health and environmental requirements.

Intended use

The ALOSDIEL electronic dimmer is designed for the optimum control of lighting in poultry houses. Any other use is not in compliance with the intended use. Agrilight B.V. accepts no liability for damage or injury resulting from any use of the ALOSDIEL other than its intended use, i.e. for which it was developed and designed.

For your safety. Caution!

Agrilight B.V. attaches the greatest importance to the fact that the ALOSDIEL is operated and maintained in a manner that ensures the safety of the user.
Please follow the instructions below in order to ensure the safe and reliable operation of the product:

1. Please ensure that you read this manual before installing the ALOSDIEL electronic dimmer.
2. Ensure that the persons responsible for installing and mounting/ connecting the armatures are familiar with the instructions and all other relevant infaormation contained in the manuals before installing. Please ensure before installing that all instructions are fully understood. This is the responsibility of the certified technician who installs the equipment.

230V AC Power supply
The components in the electronic dimmer are subjected to a voltage of 230V.

Safety instructions
Always follow and comply with the safety instructions of this manual. If the safety instructions and warnings are not complied with, this may damage the installation and/or lead to severe or fatal injury.

Service Parts

To ensure proper operation of the unit, only original Agrilight B.V. components should be used, or components of at least the same quality.

EU declaration of Conformity:

Manufacturer: Agrilight b.v.
Address: Vlotlaan 560, 2681 TX Monster, the Netherlands

Hereby certifies that the:
Agrilight B.V. electronic dimmer of the type:

ALOSDIEL

complies with the provisions and regulations laid down in directive: EN55015
EN61547
EN61000-3-2

Monster, 2010 Agrilight b.v.

We retain the right to make amendments to the text, drawings and diagrams without any prior notification.

Document : ALOSDIEL EN Version: 00 Date: April 2010

Unpacking and Inspecting

1. Unpack the ALOSDIEL carefully.
2. Inspect the contents of the packaging for any damage that may have occurred during transport.
3. In the event of damage, contact Agrilight B.V. immediately, with reference to the packaging documents. You are advised to discontinue the installation of the ALOSDIEL in the event of damage, even if the damage in question appears to be superficial or minor. In the event of damage, please consult Agrilight B.V. first, before you consider installing the product.

Introduction

The ALOSDIEL electronic dimmer can be used to dim (50%) or automatically control Orion armatures by means of a 0-10V variable control signal.

- For dimming a maximum of 80 Orion compact 11W lights.
- 75% energy saving in comparison to incandescent lamps
- 50% energy saving in comparison to TL lighting
- Reverse dimming from 100% to 50% luminosity
- Life-cycle of lights: 8 x longer than incandescent lights
- Suitable for all types of poultry enclosure/houses.

The ALOSDIEL is not suitable for the control of electronic adaptors.

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The electronic dimmer is designed for the simultaneous control of a max. of 80 Orion PL light armatures of 11W.
The system is equipped with an automatic delay that ensures that the dimming operation of the dimmer is delayed for the first 30 seconds following activation when the lighting is switched on. This precautionary measure is required for ensuring the safe ignition and warm-up of the lights.
After this initial 'warm-up period', the dimmer automatically switches to the position set by the potentiometer.

Technical data

Dimmer		*Dimensions and weight*				*Lamp*	*Series*					*Capacitor*
Type	*Cat. nr.*	*length*	*width*	*height*	*Weight*	*Power*	*Voltage*	*Capacity/ potential*	*Model without capacitor*			*1.5 µF / lamp*
									High	*Medium*	*Low*	
		mm	*mm*	*mm*	*kg*	*W*	*V / Hz*	*W*	*A*	*A*	*A*	*MF*
D80*11SL	798	300	250	110	4	11*	230/50*	1300	9	- -	4.5	- -
D80*11	797	300	250	110	4	11*	230/50*	1300	8	- -	4.0	- -

* Systems with other voltages or CLF lamps are available on request.

Installation

If the following instructions and safety warnings are not complied with, this may result in death or serious personal injury and damage to the equipment.

Agrilight B.V. cannot be held liable for damage and/or injury resulting from the improper mounting and installation of the ALOSDIEL.

- The ALOSDIEL electronic dimmer may only be opened by a certified technician. Likewise, the Orion system may only be installed and put into operation by a certified technician.
- Always ensure that both the ALOSDIEL electronic dimmer and entire Orion system is switched off and disconnected from the mains before carrying out work on (parts of) the system!
  Ensure that the power supply cannot be turned on accidentally.
- Keep the direct vicinity free from animals and any internal transport whilst carrying out installation activities.
- Only use insulated tools!

- **Ensure that you do not confuse the phase, earth and null connections when connecting - this may result in life-threatening situations!**
- **Ensure that the power supply and voltage corresponds to the power supply and voltage required by the electronic dimmer. These are clearly indicated on the sticker on the housing.**
- **When connecting up, consult the circuit diagram in this manual and always ensure that you comply with the legally applicable connecting requirements (e.g. NEN 1010 for the Netherlands).**

Sealing rings

The bolts of the cover are provided on the inside with sealing rings.

Ensure you do not lose these rings when removing the cover.

It is recommended not to unscrew the bolts entirely from the cover, so that the sealing rings around the bolts remain in place.

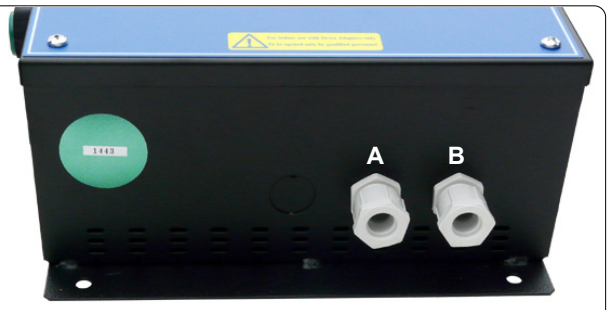
Mounting the box to the wall

The dimmer boxes are provided with four mounting holes so that the boxes can be easily mounted to the wall.
Ensure that the space in which the system is installed is free from moisture and frost and that it is well-ventilated.

Connecting up

Disconnect the mains power supply before you connect the ALOSDIEL! Ensure that the power supply cannot be switched on accidentally whilst connecting the unit!

Feed the cables through the gland feed-throughs in the cabinet in accordance with connection diagram.

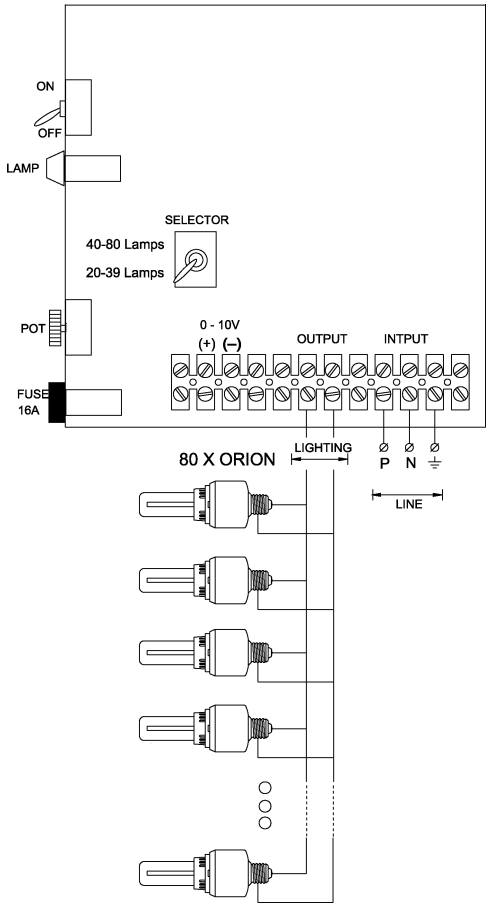


TYPE: ALOSDIEL

A = Output to lights
B = Input 230V

Gland feed-throughs: diam. of leads min. 11 mm, max. 14 mm.

Electrical circuit diagram



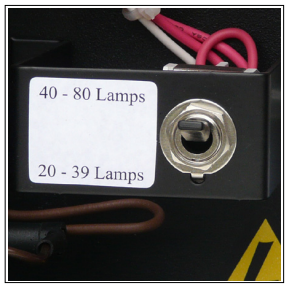
Operation

Setting luminance levels

Light selection switch

A light selection switch is located inside the cabinet. This switch must be wired in accordance with the number of lights in your Orion system: 40-80 lamps / 20-39 lamps.

Example: If your Orion system comprises 45 lights, the switch must be set to switch position: 40-80.

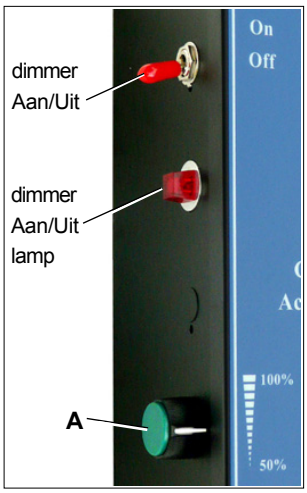


Automatic/Manual

The electronic dimmer can be controlled/operated by means of a 10V signal or via one's own manually operated potentiometer.

Auto-switching:
Luminosity can be controlled from min. to max. by means of a 0-10V control signal.
This signal must be input in the 'Analog Voltage Input 0-10V' of the dimmer.
Note: when in the automatic position, the manually operated potentiometer must be set to 0 (zero).

Manual:
Luminosity is controlled by a potentiometer (A). The lowest luminosity level is reached when the potentiometer points to the 50% mark and is at its highest when it points to 100%.



Correction of power factor (effective capacity)

The dimmer has a built-in power factor (effective capacity).

Maintenance

Disconnect the ALOSDIEL from the power supply before performing maintenance on the ALOSDIEL! NEVER remove the cover from the ALOSDIEL. This may only be done by a certified technician!

Agrilight B.V. recommends that you have your ALOSDIEL serviced once a year by a certified technician to test its operation and to check all fixtures and connections.
In order to retain the required amount of lighting, you are advised to check the entire system regularly, to clean the Orion armatures with a damp cloth and to clean the dimmer box with a dry cloth.

NEVER clean the ALOSDIEL with a damp cloth! This can cause severe injury to yourself or serious damage to the system.

Ventilation grille

The side of the dimmer box is provided with a ventilation grille. Never cover this grid and always remove any dust or dirt from the grid (using a dry cloth!).
This is to prevent overheating.

Malfunctions

When checking malfunctions, be aware of the risk of electrically live components. Although the ALOSDIEL is designed with safety in mind and is earthed, hazards due to malfunctions can never be ruled out. Only certified technicians are permitted to perform the electrical installation or measurements/tests on the unit.

In the event of a short-circuit:
Solve the failure before replacing the (16A) fuse!

If the Orion system no longer functions:

Check for presence of power supply:

- Check that the ON/OFF switch is turned to the "ON" position.
- Check the control panels;
- Check the fuses;
- Check your computer settings (if computer-control is used);
- Check and/or replace defective PL-lights, see armature manual.

If the control cabinet still doesn't operate correctly:

Always disconnect the Orion system entirely before opening the cover.
Be aware of and prevent any accidental activation by others or by an automated control and/or dimmer switch.
In the event of a malfunction, never touch the ALOSDIEL unit whilst the power supply is still connected or if the housing of the ALOSDIEL is damaged or wet.

- Check the wiring in the control cabinet(s).

CONDITIONS OF WARRANTY

1. If it appears that your product does not function well, even though you have used it in the correct manner and in accordance with the written user manual and assembly instructions, the product will be replaced or repaired free of charge within a period of one year after purchase. In order to claim this warranty the customer must submit the product invoice to Agrilight B.V. within the 1 year warranty period.
2. The product must be returned to Agrilight B.V. within 30 days following the occurrence of the defect or malfunction for the purpose of verification.
3. The product must be provided with a project name and sent to the following address:

   Agrilight b.v.
   Attn.: Service Dept.
   Vlotlaan 412
   2681 TV Monster - the Netherlands

4. When Agrilight B.V. sends the replacement parts you will receive an invoice that will be credited to your account when and if it can be verified that the malfunction or defect falls under the warranty.
5. If Agrilight B.V. has not received the defective product by return mail within 30 days of the invoice date, the warranty invoice will be treated as a sales invoice, after which period the invoiced amount must be paid to Agrilight B.V. within 30 days.
6. The warranty does not cover the following situations for which the customer will be invoiced during the warranty period:

a. Defects or damage resulting from fire, earthquakes, floods, lightning strikes, other natural disasters, as well as environmental pollution and problems related to power supply.
b. Defects resulting from sand, mud, dirt etc. penetrating the housing of the product.
c. Defects resulting from transport, accidents, shock and vibrations etc. following the purchase from and delivery of the product by Agrilight B.V..
d. Defects resulting from negligence, carelessness or incorrect storage, improper maintenance etc.
e. Defects resulting from improper use (such as the use of the unit for purposes not specified in the user manual and/or assembly and installation instructions etc.).
f. Defects resulting from repairs and/or modifications.
g. If the invoice cannot be submitted together with the product when warranty claims are made.
h. If changes have been made to the original purchase invoice or to the customer name on the invoice.

7. The liability on the part of Agrilight B.V. is restricted to the scope of this warranty and only includes the replacement and/or repair of the product. Agrilight B.V. accepts no liability for damages incurred directly or indirectly as a result of any defects in the product. Agrilight B.V. is not liable for expenses incurred as a result of disassembly and assembly/ mounting, or expenses incurred as a result of travel and accommodation.
8. Any damage resulting from transport or incomplete delivery must be reported to Agrilight B.V. within 5 working days. Any notifications received by Agrilight B.V. beyond this period do not fall within the scope of the warranty or warranty period.

LIABILITY

Agrilight B.V. states emphatically that it cannot be held liable for damages of any kind or magnitude, caused by non-compliance with the instructions in this manual or as a result of non-compliance with the connecting and installing requirements according to NEN 1010. We also refer to our terms and conditions of delivery according to the conditions and requirements laid down by the Netherlands Metal Association and any additional warranty provisions of Agrilight B.V.. We reserve the right to make amendments without further notification.